

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/015662

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/415 A61K31/42 A61P13/00 C07D231/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data, BIOSIS, EMBASE, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	WO 03/086287 A (UNIV OHIO STATE RES FOUND ; LIN HO-PI (US); SONG XUEQIN (US); CHEN CHI) 23 October 2003 (2003-10-23) paragraphs [0009], [0010]	1-13
P,X	EP 1 400 243 A (TANABE SEIYAKU CO) 24 March 2004 (2004-03-24) paragraphs [0001], [0009] table 2	1,3-6,14
X,P	VICKERSTAFFE, EMMA ET AL: "Fully Automated Polymer-Assisted Synthesis of 1,5-Biaryl Pyrazoles" JOURNAL OF COMBINATORIAL CHEMISTRY, 6(3), 332-339 CODEN: JCCHFF; ISSN: 1520-4766, 2004, XP008041537 the whole document	7-13

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

25 January 2005

Date of mailing of the international search report

- 3. 06. 2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/42221 A (HAGEMAN MICHAEL J ; MIYAKE PATRICIA J (US); STEFANSKI KEVIN J (US); HE) 14 June 2001 (2001-06-14) page 20, paragraph 3 -----	1
X	US 6 440 963 B1 (TESTA RODOLFO ET AL) 27 August 2002 (2002-08-27) column 3, line 40 - column 4, line 40 -----	1,3-6,14
X	EP 0 554 829 A (FUJISAWA PHARMACEUTICAL CO) 11 August 1993 (1993-08-11) page 1, paragraph 1 -----	1-7,12, 13
X	ZHU, JIUXIANG ET AL: "Using Cyclooxygenase-2 Inhibitors as Molecular Platforms to Develop a New Class of Apoptosis-Inducing Agents" JOURNAL OF THE NATIONAL CANCER INSTITUTE , 94(23), 1745-1757 CODEN: JNCIEQ; ISSN: 0027-8874, 2002, XP008041497 the whole document -----	1-14
X	BOOTH, R. JOHN ET AL: "Polymer-Supported Quenching Reagents for Parallel Purification" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY , 119(21), 4882-4886 CODEN: JACSAT; ISSN: 0002-7863, 1997, XP002102299 the whole document -----	7-11
A	WO 02/18350 A (IKEDA SHOTA ; FUKUMOTO SHOJI (JP); TAKEDA CHEMICAL INDUSTRIES LTD (JP)) 7 March 2002 (2002-03-07) -----	1,6
A	-----	7,12,13
X	WO 99/32454 A (DU PONT PHARM CO) 1 July 1999 (1999-07-01) the whole document -----	7
P,X	PRUITT J R ET AL: "Discovery of 1-(2-Aminomethylphenyl)-3-trifluoromethyl-N-[3-fluoro-2'-(aminosulfonyl)[1,1'-biphenyl]]-4-yl]-1H-pyrazole-5-carboxamide (DPC602), a Potent, Selective, and Orally Bioavailable Factor Xa Inhibitor" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 46, no. 25, 4 December 2003 (2003-12-04), pages 5298-5315, XP002302832 ISSN: 0022-2623 the whole document -----	7

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-14 (partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-14 (partially)

1. A large conductance calcium activated K channel opener comprising a compounds of formula (Ia), where the ring Q is a 1,5 disubstituted pyrazole, where ring A is a benzene, B is benzene, heterocyclic, cycloalkane or cycloalkene.

2. claims: 1-14 (partially)

A large conductance calcium activated K channel opener comprising a compounds of formula (Ia), where the ring Q is a 1,5 di substituted pyrazole, where ring A is a thiophene, B is benzene, heterocyclic, cycloalkane or cycloalkene.

3. claims: 1-14(partially)

A large conductance calcium activated K channel opener comprising a compounds of formula (Ia), where the ring Q is a 1,5 di substituted pyrazole, where ring A is a pyridine, B is benzene, heterocyclic, cycloalkane or cycloalkene.

4. claims: 1-14(partially)

A large conductance calcium activated K channel opener comprising a compounds of formula (Ia), where the ring Q is a 1,5 di substituted pyrazole, where ring A is a pyrazole, B is benzene, heterocyclic, cycloalkane or cycloalkene.

5. claims: 1-14 (partially)

A large conductance calcium activated K channel opener comprising a compound of formula (Ia), where the ring Q is a 2,3 disubstituted pyrazole;

6. claims: 1-14 (partially)

A large conductance calcium activated K channel opener comprising a compound of formula (Ia), where the ring Q is a 3,4 disubstituted oxazole;

7. claims: 1-14 (partially)

A large conductance calcium activated K channel opener comprising a compound of formula (Ia), where the ring Q is a 4,3 disubstituted oxazole.

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Information on patent family members

International Application No

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